

Headquarters U. S. Ariffsified Force

S. AIR FORCE Air Force Medical Support Agency/SGOB

Air Force Blood Program Division... A New Beginning



- TSgt Maurice Shaw
 - 9 Mar 04



Workgroup Objective

- Transform from cold war based requirements
- Integrate in-garrison and expeditionary assets
- Introduce a modular, building block system
- Reduce footprint and airlift requirements
 - All while still...

Providing blood

- •in the *right amounts*
- ■to the <u>right place</u>

Pat the right time



CY 2004 Workgroup Timeline

Report progress to AF/DSG and ASBPO

Phase 1 - Preparation

AFTTP, Allowance Standard Revision/Equip evaluation

FY 04-06 FUNDING

POM Planning

Phase 2 - FFF

Ensure capability match requirements

AS completion and sourcing

Jul

Aug

Phase 3 - OTE

Finalize training opportunities

Equip new UTC

Sept Oct

Nov Dec

Jan Feb Mar Apr Explanations of Phases

Phase 1 Prepare by clearly identifying goals; requirements; AFTTP; AS

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Phase 2 Form, Fit, and Function (FFF) complete AS revision; Prototype

Phase 3 Organize, Train and Equip for full wartime mission

May



Air Force Blood Program-Readiness Unit Type Codes (UTCs)

FIVE (5) BLOOD ASSOCIATED UTCs

- Blood Transshipment Centers (BTC)
- 2. Transportable Blood Transshipment Centers (TBTC)
 - NOTE: The BTC and TBTC will be combined, reengineered and renamed to reflect:
 - Blood Transshipment System Module 1
 - Blood Transshipment System Module 2
 - Blood Transshipment System Module 3
- 3. CONUS/OCONUS Blood Donor Centers (BDC)
- 4. Armed Services Whole Blood Processing Lab (ASWBPL)
- Frozen Blood Teams (FFBD1)



Langley's TBTC - 44 Tons



44 Tons
19 Pallet Spaces
12 Members
Wrong AFSC Mix!
No Flexibility!
Not
Expeditionary!
NO MORE!



Blood Trans-Shipment System(BTS)

The New Theater Blood Trans-Shipment Systems

- Blood Transshipment System Module 1
 - 3 Members/1 Pallet/500 RBCs & 40 FFP
- Blood Transshipment System Module 2
 - 6 Members/2 more Pallets/1000 RBCs & 40 FFP
- Blood Transshipment System Module 3
 - 9 Members/2 More Pallets/2500 RBCs & 80 FFP
- Please note the equipment/supply list are just placeholders, but the concept is concrete.
- The personnel pictured are just medics, not lab personnel.











Mission Capabilities

- Operational within 6-hours of site arrival
- Max Daily liquid RBCs is 500 units
- Max Daily FFP capacity is 40 60 units
- Provide blood to meet theater needs
- Intermediate transshipment center
 - •re-icing, shipping and storage facilities

- •2 Refrigerators total Capacity of 500 liquid RBCs
- •1 Freezer total Capacity of 40-60 FFP
- •2 Ice Makers Capacity of 1162 lbs of wet ice daily

Equipment/Supply Consideration

- Portable Diesel Generator Surge Protectors
- •Tent/Shelter Dolly
- TDBSS and other Info Systems Manual

TITLE	AFSC	GRADE	QUANTITY
EMEDS ank	043T3A	Lt/Capt	0
Officer			_
• Joint Bloo	a uro gra	ധ <i>ര്</i> ങ്ങി⇔	$nent_{-1}$
Optamines.	FCS: nose	sible bldg	of
Med Lab	41071	TSgt	0
opportunit	/		
Med Materiel	4A 151	SrA/SSgt	1
JNMN			
Medical Lab	4 T051	SrA/SSgt	1
Specialist			
Health Service	4A 051	SrA/SSgt	0
Management			
JNMN			
MERC	4A 251	SSgt	0
Total			3
Personnel			



Mission Capabilities

- 1. Operational within 6-hours of site arrival
- 2. Max Daily liquid RBCs is 500 units
- 3. Max Daily FFP capacity is 40 60 units
- 4. Provide blood to meet theater needs
- 5. Intermediate transshipment center
 - re-icing, shipping and storage facilities
- 6. Located at major airfields and/or EMEDS
- 7. Joint Blood Program Component
- 8. Requires ECS; possible bldg of opportunity



BTS Module 1 Personnel Package

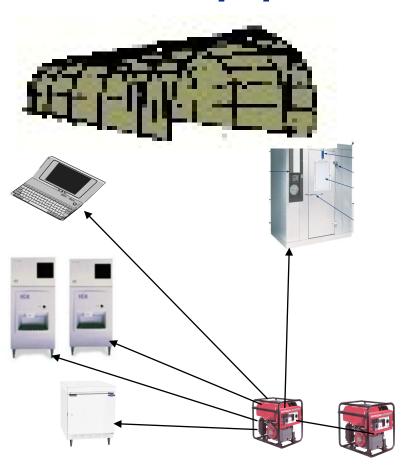


- ■24 hour capability
- ■3 Team Members
 - ■1 Senior Lab Tech
 - Now Team Chief*
 - ■1 Lab Tech Journeyman
 - 1 Med Log Journeyman

TITLE	AFSC	GRADE	QUANTITY
Blood Bank	043T3A	Lt/Capt	0
Officer			
*MedLab	4T071	MSgt	1
Craftsman			
Med Lab	4T071	TSgt	0
Craftsman			
Med Materiel	4A151	SrA/SSgt	1
JNMN			
Medical Lab	4T051	SrA/SSgt	1
Specialist			
Health Service	4A 051	SrA/SSgt	0
Management			
JNMN			
MERC	4A 251	SSgt	0
Total			3
Personnel			



Equipment Considerations



- 1 Shelter Alaskan Tent comparable to EMEDS concept or building of opportunity
 - 1 10'x20' space
 - Amps____
- 1 Refrigerator 110 220 V/50-60 Hz
 - Capacity of 500 units of RBCs @ 1-6 C
 - FDA Approved with Validation Certificate
 - Amps____
- 1 Under counter Freezer 110- 220V/ 50-60Hz
 - Capacity of 40-60 units of FFP @ < -18 C
- 2 Ice Machines 110 220V/50-60 Hz
 - Ea must produce 1162 lbs of cube ice daily
 - Amps
- 1 TDBSS 110- 220V/ 50-60Hz
 - Printer/Handheld Scanner/FTP/SIPR
- 2 Sm Portable Diesel Generators
 - Output 110V/50-60 Hz
 - Amp Output Capacity ____
- Environmental Control Units (ECU)
 - 1-2 supplied by Base Operating System



Other Supply Considerations

- Prep Station/Table
- Dolly(s)
- Shipping Boxes (Collins?)
- Chux
- Thermometers
- Manual Forms (COOP)
- Thick Plastic Ice Bags
- Bag Ties
- Surge Protectors
- Diesel Can with Credit card
- 2-way radio
- GPS
- Lighting
- Ice Scoop













Mission Capabilities

- Operational within 12-hours of site arrival
- Max Daily liquid RBCs is 1000 units
- Max Daily FFP capacity is 40 60 units
- Provide blood to meet theater needs
- Intermediate transshipment centerre-icing, shipping and storage

Te-icing, snipping and storage

quipment/Supply Consideration

- •2 Refrigerators total Capacity of 1000 liquid RBCs
- •1 Freezer total Capacity of 40-60 FFP
- •2 Ice Makers Capacity of 1162 lbs of wet ice daily ea
- Portable Diesel Generator Surge Protectors
- •Tent/Shelter Dolly
- •TDBSS/other Info Systems Forms

Manual

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TITLE	AFSC		QUANTTTY
EMED Bank EMED Ser	043T3A	Lt/Capt	as ana, or
Joint Bloo Craftsman		-	
Requires		si ble tblo	lg of o
opportunity Med Materiel	4A 151	SrA/SSqt	1
JNMN	4 131	SIA/SSGt	1
Medical Lab	4T051	SrA/SSgt	2
Specialist			
Health Service	4A 051	SrA/SSgt	0
Management			
JNMN			
MERC	4A 251	SSgt	1
Total			6
Personnel			

• Brep Station D Integ Flietry om Sters vice - Excelle "Ce" 1



Mission Capabilities

- Operational within 12-hours of site arrival
- Max Daily liquid RBCs is 1000 units
- Max Daily FFP capacity is 40 60 units
- Provide blood to meet theater needs
- Intermediate transshipment center
 - re-icing, shipping and storage facilities
- Co-located at major airfields and/or EMEDS



BTS Module 2 Personnel Package





TITLE	AFSC	GRADE	QUANTITY
Blood Bank	043T3A	Lt/Capt	1
Officer			
MedLab	4T071	MSgt	1
Craftsman			
Med Lab	4T071	TSgt	0
Craftsman			
Med Materiel	4A151	SrA/SSgt	1
JNMN			
Medical Lab	4T051	SrA/SSgt	2
Specialist			
Health Service	4A 051	SrA/SSgt	0
Management			
JNMN			
MERC	4A251	SSgt	1
Total			6
Personnel			



Equipment Considerations

- •3 Refrigerators total Capacity of 1000 liquid RBCs
- •2 Freezer total Capacity of 40-60 FFP
- •3 Ice Makers Capacity of 1162 lbs of wet ice daily ea
- Portable Diesel Generator
- Surge Protectors
- Tent/Shelter
- Manual Forms
- Prep Station
- Thermometers
- Shipping Boxes
- Chux
- Dolly
- TDBSS/other Info System



Other Supply Considerations

- Prep Station/Table
- Dolly(s)
- Shipping Boxes (Collins?)
- Chux
- Thermometers
- Manual Forms (COOP)
- Thick Plastic Ice Bags
- Bag Ties
- Surge Protectors
- Diesel Can with Credit card
- 2-way radio
- GPS
- Lighting
- Ice Scoop



facilities

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Mission Capabilities

- Operational within 12-hours of site arrival
- Max Daily liquid RBCs is 2500 units
- Max Daily FFP capacity is 80-120 units
- Provide blood to meet theater needs
- Intermediate transshipment centerre-icing, shipping and storage

- •3 Refrigerators total Capacity of 2500 liquid RBCs
- •2 Freezer total Capacity of 80-120 FFP
- •3 Ice Makers Capacity of 1162 lbs of wet ice daily ea
- Portable Diesel Generator Surge Protectors
- •Tent/Shelter Dolly
- •TDBSS/other Info Systems Forms

Manual

TITLE	AFSC	GRADE	QUANT
			ITY
EMEDSa	043T3A	Lt/Capt	1
Bank	d Duamen	C	
- Joing Bjot	o Program	Compone	
Med Lab	41091	MSgt	1
Referres	ECS: nossi	ble bldg of	
Med Lab	-41071	TSGO	1
DODOFTUNIT	V		
Med	4A 151	SrA/SSgt	1
Materiel			
JNMN			
Medical	4 T 0 51	SrA/SSgt	3
Lab			
Specialist			
Health	4A 051	SrA/SSgt	1
Service			
Manageme			
ntJNMN			
MERC	4A 251	SSgt	1
Total			9
Personnel			

• Brep Station D Integ Flietry om Sters vice - Excelle "Ce" 1



Mission Capabilities

- Operational within 12-hours of site arrival
- Max Daily liquid RBCs is 2500 units
- Max Daily FFP capacity is 80 120 units
- Provide blood to meet theater needs
- Intermediate transshipment center
 - re-icing, shipping and storage facilities
- Co-located at major airfields and/or EMEDS
- Joint Blood Program Component
- Requires ECS; possible bldg of opportunity



BTS Module 3 Personnel Package



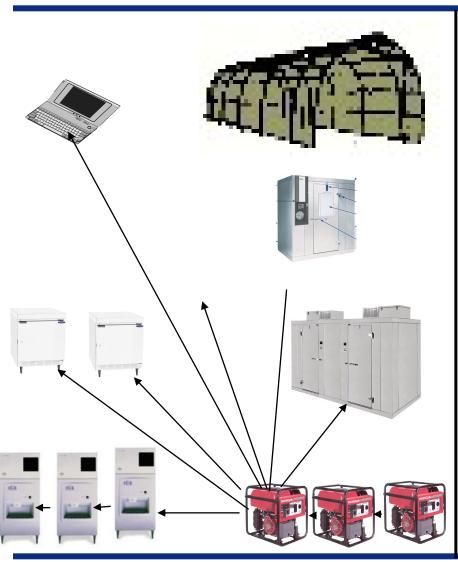




TITLE	AFSC	GRADE	QUANTITY
Blood Bank	043T3A	Lt/Capt	1
Officer			
Med Lab	4T071	MSgt	1
Craftsman			
Med Lab	4T071	TSgt	1
Craftsman			
Med Materiel	4A 151	SrA/SSgt	1
JNMN			
Medical Lab	4T051	SrA/SSgt	3
Specialist			
Health Service	4A 051	SrA/SSgt	1
Management			
JNMN			
MERC	4A 251	SSgt	1
Total			9
Personnel			



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Equipment/Supply Considerations

- 1 Shelter Alaskan Tent comparable to EMEDS concept or building of opportunity
 - 1 10'x20' space
 - Amps
- 3 Refrigerator 110 220 V/50-60 Hz
 - Capacity of 2500 units of RBCs @ 1-6 C
 - FDA Approved with Validation Certificate
 - Amps____
- 2 Under counter Freezer 110- 220V/ 50-60Hz
 - Capacity of 80-120 units of FFP @ < -18C
- 3 Ice Machines 110 220V/50-60 Hz
 - Ea must produce 1162 lbs of cube ice daily
 - Amps
- 1 TDBSS 110- 220V/ 50-60Hz
 - Printer/Handheld Scanner/FTP/SIPR
- 3 Sm Portable Diesel Generators
 - Output 110V/50-60 Hz
 - Amp Output Capacity
- Environmental Control Units (ECU)
 - 1-2 supplied by Base Operating System



Other Supply Considerations

- Prep Station/Table
- Dolly(s)
- Shipping Boxes (Collins?)
- Chux
- Thermometers
- Manual Forms (COOP)
- Thick Plastic Ice Bags
- Bag Ties
- Surge Protectors
- Diesel Can with Credit card
- 2-way radio
- GPS
- Lighting
- Ice Scoop





Air Force Blood Program Readiness Remaining Unit Type Codes (UTCs)

FIVE (5) BLOOD ASSOCIATED UTCs

- 1. Blood Transshipment Centers (BTC)
- 2. Transportable Blood Transshipment Centers (TBTC)
 - NOTE: The BTC and TBTC will be combined, reengineered and renamed to reflect:
 - Blood Transshipment System Module 1
 - Blood Transshipment System Module 2
 - Blood Transshipment System Module 3
- 3. CONUS/OCONUS Blood Donor Centers (BDC) TBD
- 4. Armed Services Whole Blood Processing Lab (ASWBPL)
 TBD
- 5. Frozen Blood Teams (FFBD1) PACOM Blood Conf 14-19
 June 04



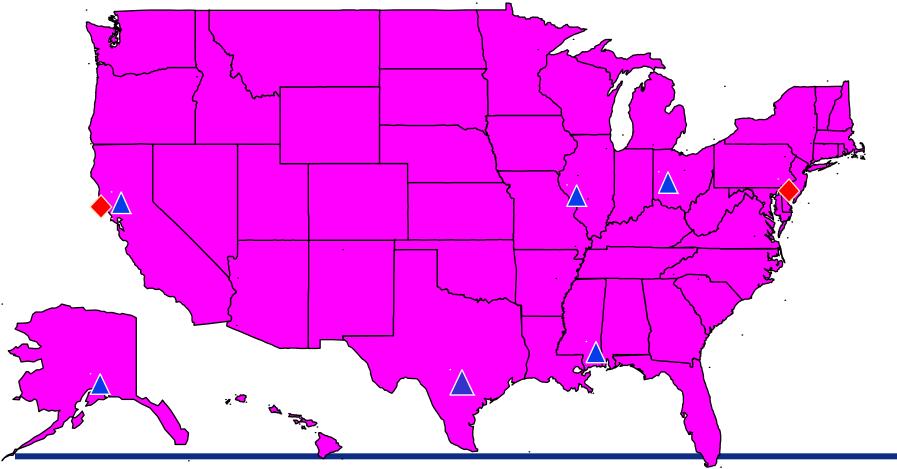
AF BLOOD DONOR CENTERS: FFLGC/FFBZZ

♦ASWBPL 2

▲ USAF 7

OCONUS BDC Lakenheath AB, UK







AF BLOOD DONOR CENTERS: FFLGC/FFBZZ

- Allowance Standard 893 will be reviewed/revised to include WRM
- Mission Capabilities statement written
- Wartime Operations documented into AFTTP Chap
- Combine UTCs FFLGC OCONUS BDC and FFBZZ CONUS to FFLGC to Blood Donor Center
- Identify new standardized donor staffing plan
 - Clearly identify augmentation plans for wartime surge



Armed Services Whole Blood Processing Laboratory





Armed Services Whole Blood ProcessingLaboratory

- Allowance Standard 893 will be reviewed/revised to include WRM
- Mission Capabilities statement written
- Wartime Operations documented into AFTTP Chap
- Peacetime considerations for new Frozen Blood program
- New Staffing plan identified augmentation plans from Tri-Service
 - Increased workload without new staffing to compensate
 - Surge workload should trigger surge staffing; redefine trigger
 - Clearly identify augmentation plans for wartime surge

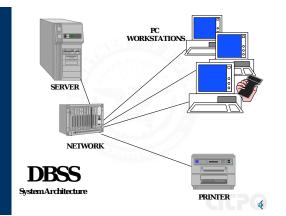


Frozen Blood Teams FFBD1











Frozen Blood Teams FFBD1

- Allowance Standard 893 will be reviewed/revised to include WRM
- Mission Capabilities statement written
- Wartime Operations documented into AFTTP Chapter
- Replace TDBSS with Fixed DBSS to better manage FRBC inventory;
 - Backed up nightly
 - Can be sent to JMAR for ASBPO oversight/planning
- A portable DBSS platform may need to be used; ie scanning EOS with docking station



Air Force Blood Program-Readiness Unit Type Codes (UTCs)

Summary

A full review, revision, and rewrite of Allowance Standards, MISCAPS, Personnel Packages, and AFTTPs will be conducted on:

FOUR (4) AF BLOOD ASSOCIATED UTCs

- 1. Blood Transshipment System
 - Blood Transshipment System Module 1
 - Blood Transshipment System Module 2
 - Blood Transshipment System Module 3
- 2. CONUS/OCONUS Blood Donor Centers (BDC)
- 3. Armed Services Whole Blood Processing Lab (ASWBPL)
- 4. Frozen Blood Teams (FFBD1)



Questions?

Questions?

Questions?